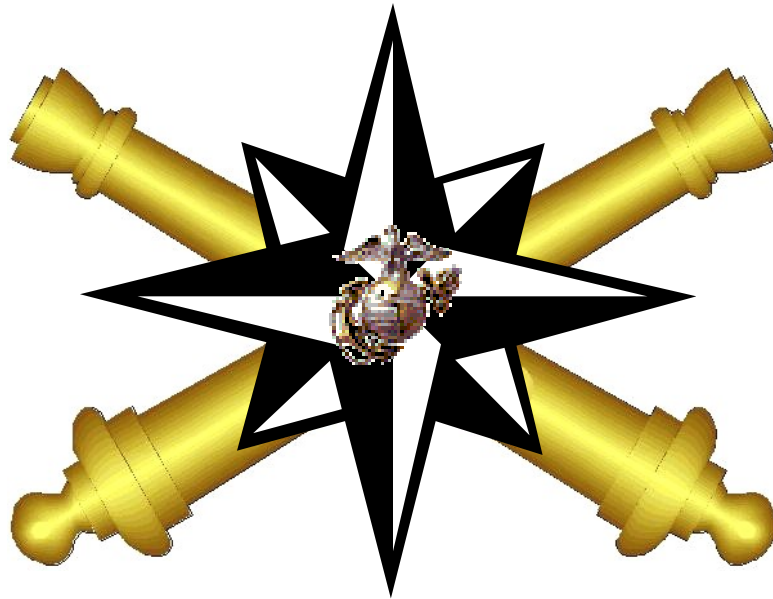




UNITED STATES MARINE CORPS SYTEMS COMMAND

Fire Support Systems Program Conference



***Fire Support Systems
Targeting Team Programs***

Camp Lejeune

5 - 6 May 2004



Targeting Systems Team



Mission:

Develop, procure, sustain, and dispose of USMC targeting systems

Programs

- Common Laser Range Finder (CLRF)
 - AN/PEQ-21B
 - MLE-50
 - PTS-180
 - AN/GVS 5
- Fire Support Target Designator (FSTD)
- Ground-Based Laser Target Designator (GLTD) II
- MULE
- SOFLAM

Targeting Program Office POCs

- Project Officer, Major Donald Carrier 703/432-4238
- Logistician, Ms. Ann Tokarz 703/432-4262
- Item Manager, Mr. Darrell Taylor 703/432-4241
- Training Technician, Mr. Ed Garrison (Contractor) 703/441-7064
- Engineering, Mr. Al Stello (Contractor) 703/441-7066
- Programmatics, Ms Peggy Brown (Contractor) 703/441-7063



Common Laser Rangefinder (CLRF) Overview



- ✚ Single program of record to fulfill existing and future requirements for targeting laser rangefinders (LRF)
- ✚ Provide total life cycle management for all Targeting LRFs
- ✚ Address capability shortfalls and emerging technologies through modifications/insertions
- ✚ Systems include:
 - ✚ **AN/PEQ-21B (Vector 21)**
 - Procurement Quantities 1309 (included TLDHS and AEROS quantities)
 - ✚ **MLE-50 UNS**
 - Procurement Quantities 50
 - ✚ **PTS-180 UNS**
 - Procurement Quantities 210
 - ✚ **AN/GVS 5 - Phase Out**
 - Fielded Quantities 1920



CLRF Mission Description



The Common Laser Rangefinder (CLRF) is a lightweight, eye-safe laser rangefinder capable of being carried and employed by a single Marine. The principle functions of the CLRF is to assist the operator in determining target location by measuring distance, direction, and vertical angle from the operator to the object.

The CLRF assists the operator with target detection, recognition, and identification by providing optics similar in magnification and field of view to the M-22 binoculars.

The CLRF interfaces with PLGR, DAGR, THS, PFED and D-DACT.



CLRF System Description



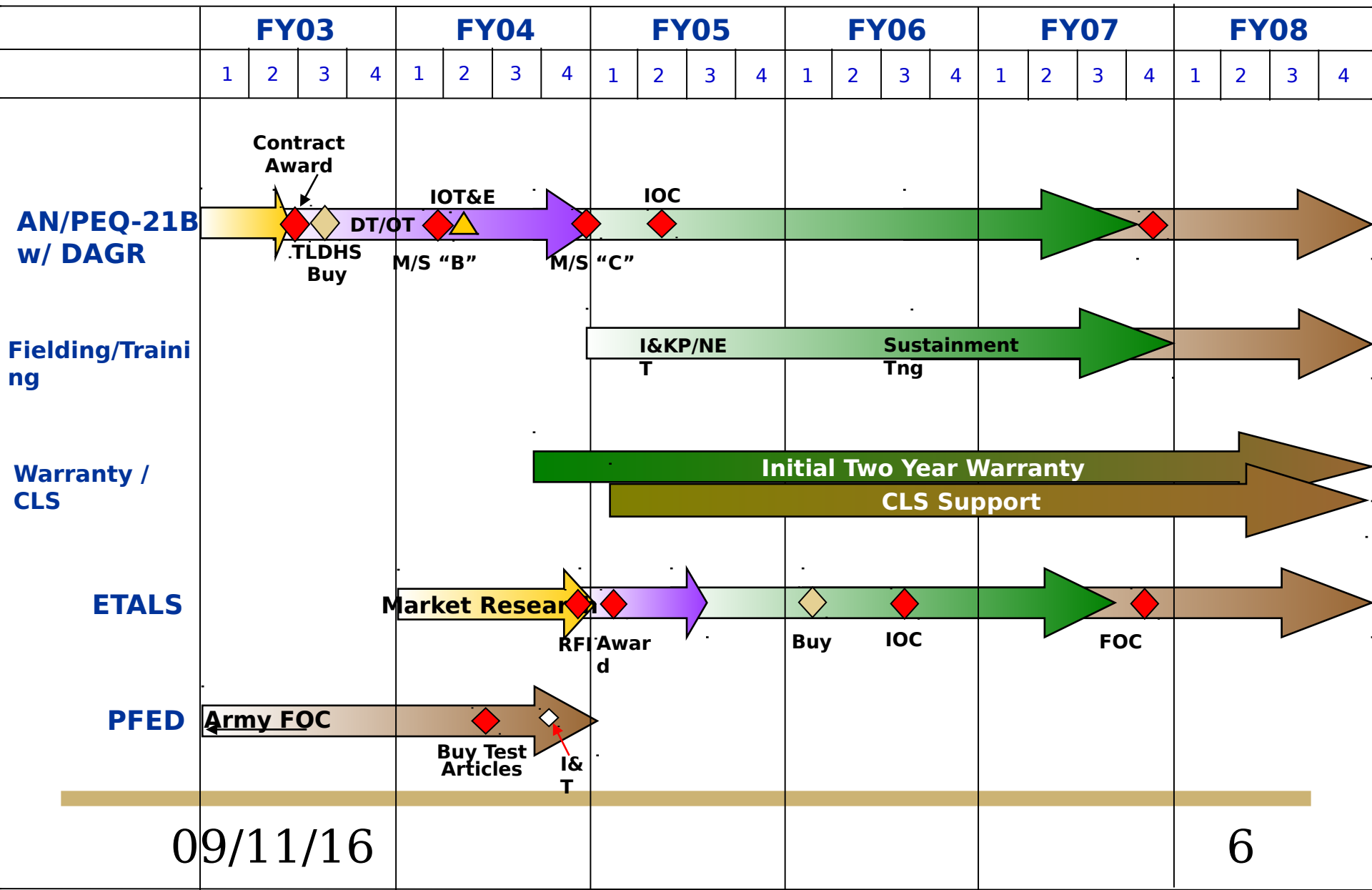
- ✚ The CLRF system consists of:
 - ✚ Vector 21 B w/ Tripod
 - ✚ PVS-14
 - ✚ DAGR
 - ✚ Non-Magnetic Compass – (ETALS FY06)

- ✚ CLRF system capabilities:
 - ✚ Range - 10 km (2.3 x 2.3 m NATO target)
 - ✚ Recognition Day/Night – Day/7.4 km
Night/750 m
 - ✚ TLE < 50 m @ 5 km
 - ✚ Interoperability - DAGR, PLGR, TLDHS, PFED
 - ✚ Base Weight – 3.7 lbs





CLRF Schedule





CLRF Issues



- ✚ DAGR replacement for PLGR
- ✚ AN/GVS-5 Phase Out*
- ✚ Sustainment Training
- ✚ Fielding / NET Schedule*
- ✚ PFED interoperability

*Details in Breakout Meeting



Designators



- ✚ Fire Support Target Designator (FSTD) Program
- ✚ Ground-based Laser Target Designator II (GLTD II)
- ✚ Modular Universal Lasing Equipment (MULE)



Fire Support Target Designator (FSTD) Program Overview



- ✦ Single program of record to fulfill the Marine Corps' Ground Target Designating Requirements
- ✦ Evolutionary in nature, providing life cycle support for current designators and acquisition of future designators
- ✦ Will replace the existing MULE capability
- ✦ Will provide designator capability for the TLDHS system
- ✦ Systems included:
 - ✦ MULE
 - ✦ SOFLAM
 - ✦ GLTD II
 - ✦ TLDHS TD



GLTD II Program Overview



- ✦ On 27 December 2002, Material Requirements Oversight Committee (MROC) approved an Urgent Need Statement (UNS) for the fielding of 141 laser designators
- ✦ GLTD II is an interim solution for the Marine Corps' requirement for a Target Designator



GLTD II System Description



▮ The GLTD II system consists of:

- ▮ GLTD II w/ Tripod
- ▮ Remote Firing Cable
- ▮ BA-5590, BB-390 Batteries
- ▮ Vehicle Power Adapter w/ cables

▮ GLTD II system capabilities are:

- ▮ Designating Range - 0 to 5000 m
- ▮ Range Finding - 200 to 19,995 m
- ▮ Weight -
 - ▮ System w/o batteries <24.8 lbs
 - ▮ Laser Marker <12.7 lbs





GLTD II Distribution



	I MEF	QTY	II MEF	QTY	III MEF	QTY	MARFORRES	QTY
1st Priority	1st Force Recon	3	2/2	2	1/5	2	3rd Force Recon	9
-2	1st ANGLICO	8	2/8	2	3/4	2	3/24	2
	2/1	2			2/3	2		
	2/4	2			2/6	2		
	2/7	2						
	3/7	2						
-1	1st LAR	2						
-2	1st Recon Bn	12						
	Mar Det 1	8						
		<u>41</u>		<u>4</u>		<u>8</u>		<u>11</u>
							Total	64
2nd Priority	3/1	2	2nd Force Recon	3			3rd Force Recon	3
-1	1/7	2	2nd ANGLICO	8			4th ANGLICO	8
	2/5	2	3/6	2			1/23	2
	3/5	2	1/8	2			2/24	2
-1	3rd LAR	2	3/8	2				
		<u>10</u>	2nd Recon Bn	<u>12</u>		<u>0</u>		<u>15</u>
				<u>29</u>			Total	54
3rd Priority	1/4	2	1/2	2	Distant Recon	6		
	1/1	2	3/2	2	Deep Recon	9		
			1/6	2	1/3	2		
			2nd LAR	2	3/3	2		
		<u>4</u>		<u>8</u>		<u>19</u>		<u>0</u>
							Total	31
	MEF/RES Total	55		41		27		149
	Spares							6
							Grand Total	155



GLTD II Issues



- ✚ Contractor Production Issues halted fielding in FY03
- ✚ Resume Fielding in May/June FY04
- ✚ Fielding Priorities
- ✚ Sustainment



Modular Universal Lasing Equipment (MULE)



✚ MULE Sustainment / Short Term Fix

- ✚ Sustainment through cannibalization
- ✚ Spare inventory
- ✚ Impacts to Artillery Btry's